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Claims

- 1. A method for treating or preventing a malignancy or hypercholesterolemia in a subject comprising,
- administering to said subject a therapeutically-effective amount of a composition selected from the group consisting of an essence oil isolated from a citrus fruit, a peel oil isolated from a citrus fruit, a peel isolated from a citrus fruit, decharacterized cranberry fruit, and combinations thereof.
- 10 2. The method of claim 1, wherein the malignancy is breast cancer.
 - 3. The method of claim 1, wherein the malignancy is metastatic.
- 4. The method of claim 1, wherein the hypercholesterolemia is measured by altered apoB levels.
 - 5. The method of claim 1, wherein the composition further comprises a compound selected from group comprising fats, carbohydrates, proteins, vitamins, minerals, and combinations thereof.
 - 6. The method of claim 1, wherein the composition is administered orally.
 - 7. The method of claim 1, wherein the citrus fruit is a grapefruit.
- 8. A method of nutritionally supplementing a foodstuff comprising, adding to said foodstuff a composition selected from the group consisting of an essence oil isolated from a citrus fruit, a peel oil isolated from a citrus fruit, a peel isolated from a citrus fruit, decharacterized cranberry fruit, and combinations thereof.

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- 9. A dietary supplement comprising, a composition selected from the group consisting of an essence oil isolated from a citrus fruit, a peel oil isolated from a citrus fruit, a peel isolated from a citrus fruit, decharacterized cranberry fruit, and combinations thereof.
- 10. A method of supplementing a pharmaceutical comprising, adding to said pharmaceutical a composition selected from the group consisting of an essence oil isolated from a citrus fruit, a peel oil isolated from a citrus fruit, a peel isolated from a citrus fruit, decharacterized cranberry fruit, and combinations thereof.
- 11. A composition comprising a compound isolated from cranberry and selected from the group consisting of a phenolic acid, flavanoid, fiber, omega-3-fatty acid, tocochromanol, triterpenoid, ellagic acid, and combinations thereof.
- 15 12. A composition comprising a compound isolated from cranberry and selected from the group consisting of an anthocyanin, a phenolic acid, a proanthocyanidin, and combinations thereof.
- 13. A composition isolated from a cranberry having an anthocyanin content which is
 30% or greater of that present in the native fruit, a phenolic acid content of 8% or greater of that present in the native fruit, and a proanthocyanidin content of 60% or greater of that present in the native fruit.
- 14. The composition of claim 11, wherein said phenolic acid is selected from the group consisting of para-coumaric acid, caffeic acid, chlorogenic acid, ferulic acid, protocatechuic acid, cinnamic acid, benzoic acid, gallic acid, para-hydroxybenzoic acid, and combinations thereof.
- 15. The composition of claim 11, wherein said flavanoid is selected from the group consisting of a proanthocyanidin, flavan-3-ol, anthocyanin, flavanol, and combinations thereof.

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- 16. The composition of claim 15, wherein said proanthocyanidin is selected from the group consisting of a flavan-3-ol polymer, procyanidin B 1, procyanidin B 2, procyanidin B 3, epicatechin oligomer, and combinations thereof.
- 5 17. The composition of claim 15, wherein said flavan-3-ol is selected from the group consisting of catechin, catechin gallate, epicatechin, epicatechin gallate, epigallocatechin gallate, gallocatechin gallate, and combinations thereof.
- 18. The composition of claim 15, wherein said anthocyanin is selected from the group consisting of cyanidin-3-arabinoside, cyanidin-3-galactoside, cyanidin-3-glucoside, peonidin-3-arabinoside, peonidin-3-galactoside, peonidin-3-glucoside, malvidin-3-arabinoside, malvidin-3-glucoside, and combinations thereof.
- 19. The composition of claim 15, wherein said flavanol is selected from the group consisting of quercetin, q-3-arabinoside (avicularin), q-3-galactoside (hyperin), q-3-glucoside (isoquercitrin), q-3-rhamnoside (quercitrin), myricetin, m-3-arabinoside, m-3-rhamnoside (myricitrin), m-3-digalactoside, kaempferol, isorhamnetin, and combinations thereof.
- 20. The composition of claim 11, wherein said triterpenoid is ursolic acid.
 - 21. A foodstuff comprising a composition according to claim 11.
 - 22. A dietary supplement comprising a composition according to claim 11.
 - 23. A pharmaceutical comprising a composition according to claim 11.